

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (previously presented) A method of large scale virus production, which comprises:
 - a) inoculating a cell growth medium with a population of mammalian host cells, wherein the cell growth medium contains an effective amount of a shear-protective compound;
 - b) culturing the mammalian host cells in the cell growth medium;
 - c) infecting the mammalian host cells in the cell growth medium with an aliquot of a virus seed stock, wherein the virus seed is essentially free of any cell-lysing component;
 - d) culturing the virus infected mammalian host cells of step c) under gas sparging;
 - e) harvesting intracellular and/or extracellular virus from the mammalian host cells and cell growth medium; and,
 - f) purifying the harvested virus of step e);wherein the shear-protective compound is a block copolymer surfactant.
2. (canceled)
3. (currently amended) The method of claim 1 wherein the shear-protective compound is PLURONIC®F-68 a polyoxyethylene-polyoxypropylene block copolymer having an average molecular weight of 8400 Da.
4. (currently amended) The method of claim 3 wherein PLURONIC®F-68 the polyoxyethylene-polyoxypropylene block copolymer is present at a concentration from about 0.3 g/L to about 10 g/L.
5. (currently amended) The method of claim 4 wherein PLURONIC®F-68 the polyoxyethylene-polyoxypropylene block copolymer is present at a concentration from about 1 g/L to about 2 g/L.
6. (previously presented) The method of claim 1 wherein gas sparging is provided at a rate up to about 0.1 VVM.
7. (previously presented) The method of claim 6 wherein gas sparging is provided at a rate up to about 0.001 to 0.05 VVM.
- 8-9. (canceled)

10. (previously presented) The method of claim 3 wherein gas sparging is provided at a rate up to about 0.1 VVM.
11. (previously presented) The method of claim 10 wherein gas sparging is provided at a rate up to about 0.001 to 0.05 VVM.
12. (previously presented) The method of claim 4 wherein gas sparging is provided at a rate up to about 0.1 VVM.
13. (previously presented) The method of claim 12 wherein gas sparging is provided at a rate up to about 0.001 to 0.05 VVM.
14. (previously presented) The method of claim 5 wherein gas sparging is provided at a rate up to about 0.1 VVM.
15. (previously presented) The method of claim 14 wherein gas sparging is provided at a rate up to about 0.001 to 0.05 VVM.
16. (previously presented) A method of large scale adenovirus production, which comprises:
 - a) inoculating a cell growth medium with a population of mammalian host cells, wherein the cell growth medium contains an effective amount of a shear-protective compound;
 - b) culturing the mammalian host cells in the cell growth medium;
 - c) infecting the mammalian host cells in the cell growth medium with an aliquot of an adenovirus seed stock, wherein the adenovirus seed is essentially free of any cell-lysing component;
 - d) culturing the adenovirus infected mammalian host cells of step c) under gas sparging;
 - e) harvesting intracellular and/or extracellular adenovirus from the mammalian host cells and cell growth medium; and,
 - f) purifying the harvested adenovirus of step e);wherein the shear-protective compound is a block copolymer surfactant.
17. (canceled)
18. (currently amended) The method of claim 16 wherein the shear-protective compound is PLURONIC® F-68 a polyoxyethylene-polyoxypropylene block copolymer having an average molecular weight of 8400 Da.

19. (currently amended) The method of claim 18 wherein ~~PLURONIC® F-68~~ the polyoxyethylene-polyoxypropylene block copolymer is present at a concentration from about 0.3 g/L ~~and~~ to about 10 g/L.
20. (currently amended) The method of claim 19 wherein ~~PLURONIC® F-68~~ the polyoxyethylene-polyoxypropylene block copolymer is present at a concentration from about 1 g/L to about 2 g/L.
21. (previously presented) The method of claim 16 wherein gas sparging is provided at a rate up to about 0.1 VVM.
22. (previously presented) The method of claim 21 wherein gas sparging is provided at a rate up to about 0.001 to 0.05 VVM.
- 23-24. (canceled)
25. (previously presented) The method of claim 18 wherein gas sparging is provided at a rate up to about 0.1 VVM.
26. (previously presented) The method of claim 25 wherein gas sparging is provided at a rate up to about 0.001 to 0.05 VVM.
27. (previously presented) The method of claim 19 wherein gas sparging is provided at a rate up to about 0.1 VVM.
28. (previously presented) The method of claim 27 wherein gas sparging is provided at a rate up to about 0.001 to 0.05 VVM.
29. (previously presented) The method of claim 20 wherein gas sparging is provided at a rate up to about 0.1 VVM.
30. (previously presented) The method of claim 29 wherein gas sparging is provided at a rate up to about 0.001 to 0.05 VVM.
- 31-46. (canceled)
47. (previously presented) The method of claim 16 wherein the mammalian host cells are PER.C6™ E1-complementing cells.
48. (new) The method of claim 1 wherein the cell-lysing component is present at a concentration less than 0.00025%.

49. (new) The method of claim 16 wherein the cell-lysing component is present at a concentration less than 0.00025%.